

## Berlin School of Public Health | BSPH

Kurzbeschreibung eines Pro	jektthemas
Projektanbieter	Molekulare Epidemiologie (AG Pischon)
Institution	Max-Delbrück-Centrum für Molekulare Medizin
	Robert-Rössle-Str. 10
	13125 Berlin
	Tel: 030 / 9406 4573
Projektbetreuer/in	Tobias Pischon tobias.pischon@mdc-berlin.de
Kontaktdaten (Email)	Ilais Moreno Velásquez ilais.morenovelasquez@mdc-berlin.de
Projektthema	Resting Heart Rate in relation to postural changes in Systolic Blood pressure
	in the NAKO-pretest and MetScan studies.
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Projektbeschreibung	Increases and decreases in the response of systolic blood pressure (SBP) to
Trojentacoum croung	a change in body position have been associated with incident hypertension,
	stroke and all-cause mortality. Information on the predisposing factors for
	subtle postural changes in SBP is scarce. Resting heart rate (HR) is
	considered as a marker of autonomic nervous system activity and it is
	correlated with physical fitness. Subtle postural changes in SBP in relation
	to resting HR has rarely been described.
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	This project will aim to:
	Estimate the reliability of resting and standing HR measurements
	in the NAKO pretest and MetScan studies
	Test the hypothesis that postural changes in SBP differ according
	to resting HR
	Characterize the postural SBP and HR responses according to
	resting HR
	Describe if postural changes in SBP according to resting HR differ  with age and say.
	with age and sex
	NAKO-pretest is a population-based cross-sectional study conducted during
	the period of May 2012 to April 2013, in order to implement standardized
	study protocols and build infrastructure in the NAKO cohort.
	(https://www.mdc-berlin.de/nako-health-study).
	The cross-sectional MetScan study was established to investigate whether
	the metabolic syndrome and its parameters can be better predicted using a
	3D body surface scanner, as compared to using traditional recording
	methods. Participants were recruited between February 2016 and June
	2017 (https://www.nature.com/articles/s41598-020-66095-6)
	The thesis will include data from 653 study participants of the NAVO protect
	The thesis will include data from 653 study participants of the NAKO-pretest
	(Berlin-Brandenburg cluster area) and 516 participants from the MetScan
	study, who filled out questionnaires to assess various exposures and
	underwent physical examination that included an extended blood pressure
	measurement protocol.

Aufgaben (Umfang 140 Stunden)	Literature research; Development of research question/hypotheses; Preparation of an analysis plan; quality control, data analysis, interpretation and reporting; Familiarization with software (SAS) for data analysis
Anzahl der Projektplätze	1